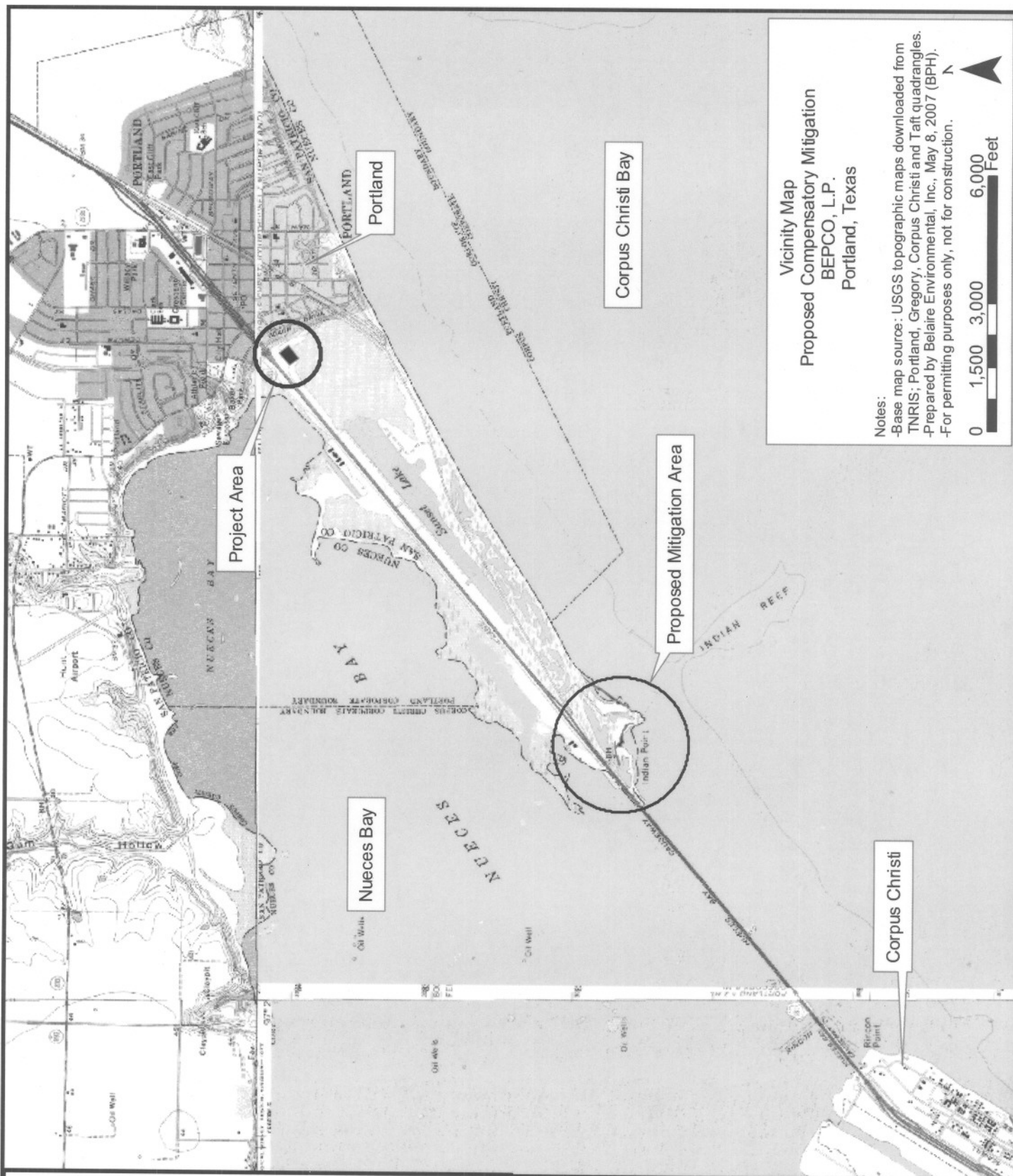


Vicinity Map
Proposed Drilling Pad Expansion & Pipeline Route, Portland, Texas

Notes:
 -USGS topographic maps Taft, Corpus Christi, Portland & Gregory quadrangles, 1975.
 -For permitting only, not for construction
 -Prepared by: Belaire Environmental, Inc., February 19, 2007 (BSG).

4,000 2,000 0 4,000 Feet



Vicinity Map
Proposed Compensatory Mitigation
BEPCO, L.P.
Portland, Texas

Notes:

-Base map source: USGS topographic maps downloaded from
TNRS; Portland, Gregory, Corpus Christi and Taft quadrangles.
-Prepared by Belaire Environmental, Inc., May 8, 2007 (BPH).
-For permitting purposes only, not for construction.

0 1,500 3,000 6,000 Feet

PROPOSED MITIGATION FOR
DRILLING PAD EXPANSION IMPACTS,
SAN PATRICIO COUNTY, TEXAS

BEPCO, L.P.
117 Tura
El Campo, Texas 77437

MAY 15 2007

SW4-2007-0538 Agent:

BELAIRE ENVIRONMENTAL, INC.
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Proposed Bore Entry Point at
Existing Production Pad
X=2376954.01714
Y=805534.423638
State Plane, NAD-27
Texas South Zone

Pipeline Directional Boring Notes:

- Boring machine will be set at north west end of pipeline boring route, at the existing production pad facility.
- Boring machine will bore from the north west end of the route to the bore end point shown on the proposed drilling pad.
- Pipe will be laid out in 200-ft to 240-ft segments (4 or 5 40-ft pipe segments) and laid across the proposed drilling pad.
- Pipe will be pulled from the proposed drilling pad to the existing production pad. The 200 to 240-ft pipe sections will be welded onto the pulled pipe as it enters the bore hole.
- Bore entry and exit points may vary slightly.

Proposed Directionally Bored 4.5"
and 2.5" Pipelines, 2402.7 ft

Pipeline Boring will avoid Approximately
0.31 Ac of Jurisdictional Impacts

SH 181

Existing Upland Pad

Proposed Bore Exit Point
X=2378480.79491
Y=803679.181503
State Plane, NAD-27
Texas South Zone

1.37 Ac Proposed Jurisdictional
Fill for Drill Site Pad Expansion

Project Overview & Pipeline
Directional Boring Map
Proposed Drilling Pad Expansion &
Pipeline Route, Portland, Texas

Notes:

- 2004 NAIP imagery obtained from TNRIS, San Patricio County.
- For permitting only, not for construction.
- Prepared by: Belaire Environmental, Inc., May 9, 2007 (BSG).

300 150 0 300
Feet

PROPOSED DRILLING PAD EXPANSION
& PIPELINE, SAN PATRICIO COUNTY,
TEXAS

MAY 15 2007

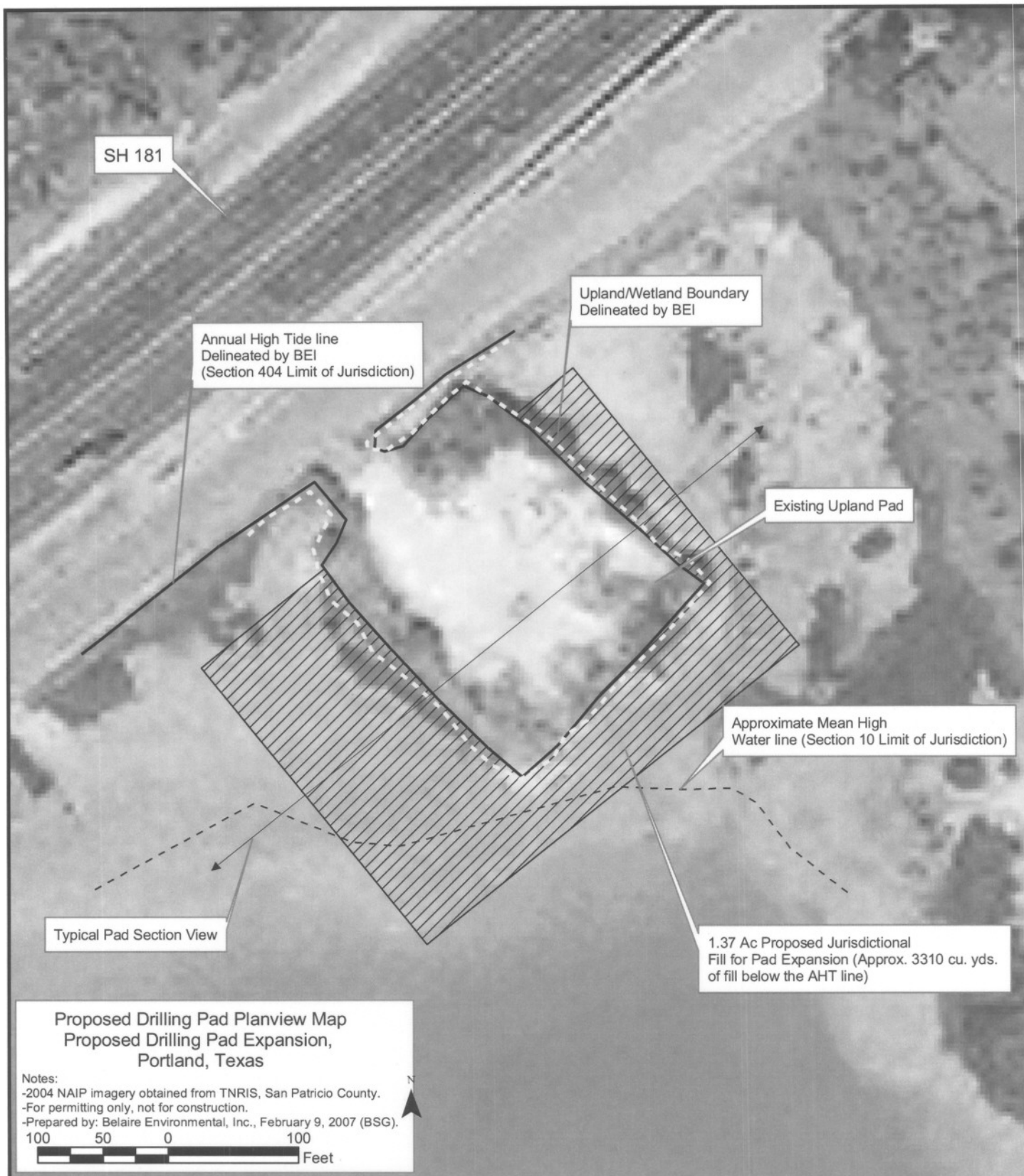
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117 Tura
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PROPOSED DRILLING PAD EXPANSION
& PIPELINE, SAN PATRICIO COUNTY,
TEXAS

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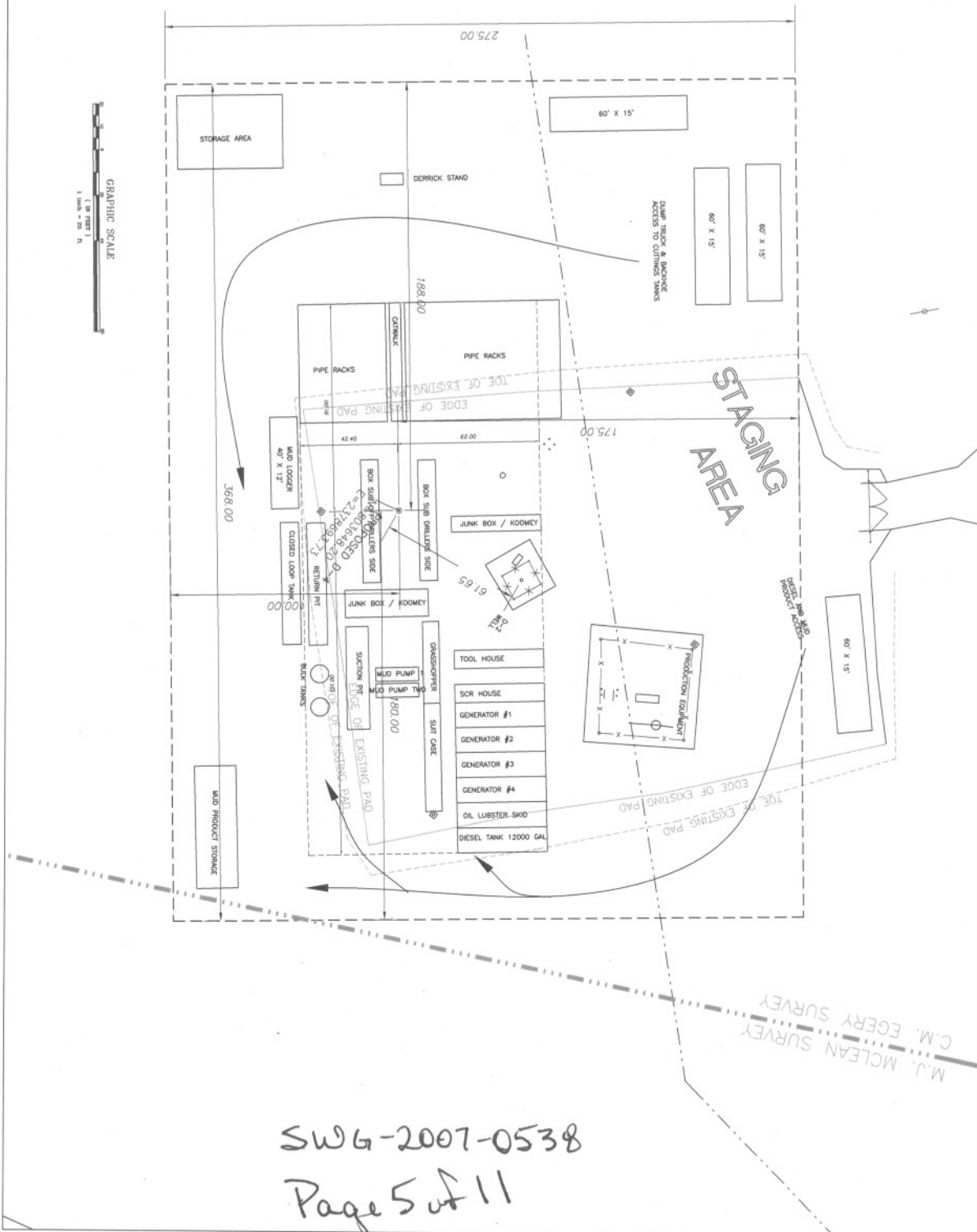
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REV. NO.	DATE	DESCRIPTION
OF 1 SHEETS	SHEET NO.	DATE: 9-8-06 SCALE: 1"=20' JOB NO.: 92042 DESIGN BY: DRAWN BY: DR SURVEYED BY: PN COMP. FILE: 92042B.DWG FIELD BK. NO:

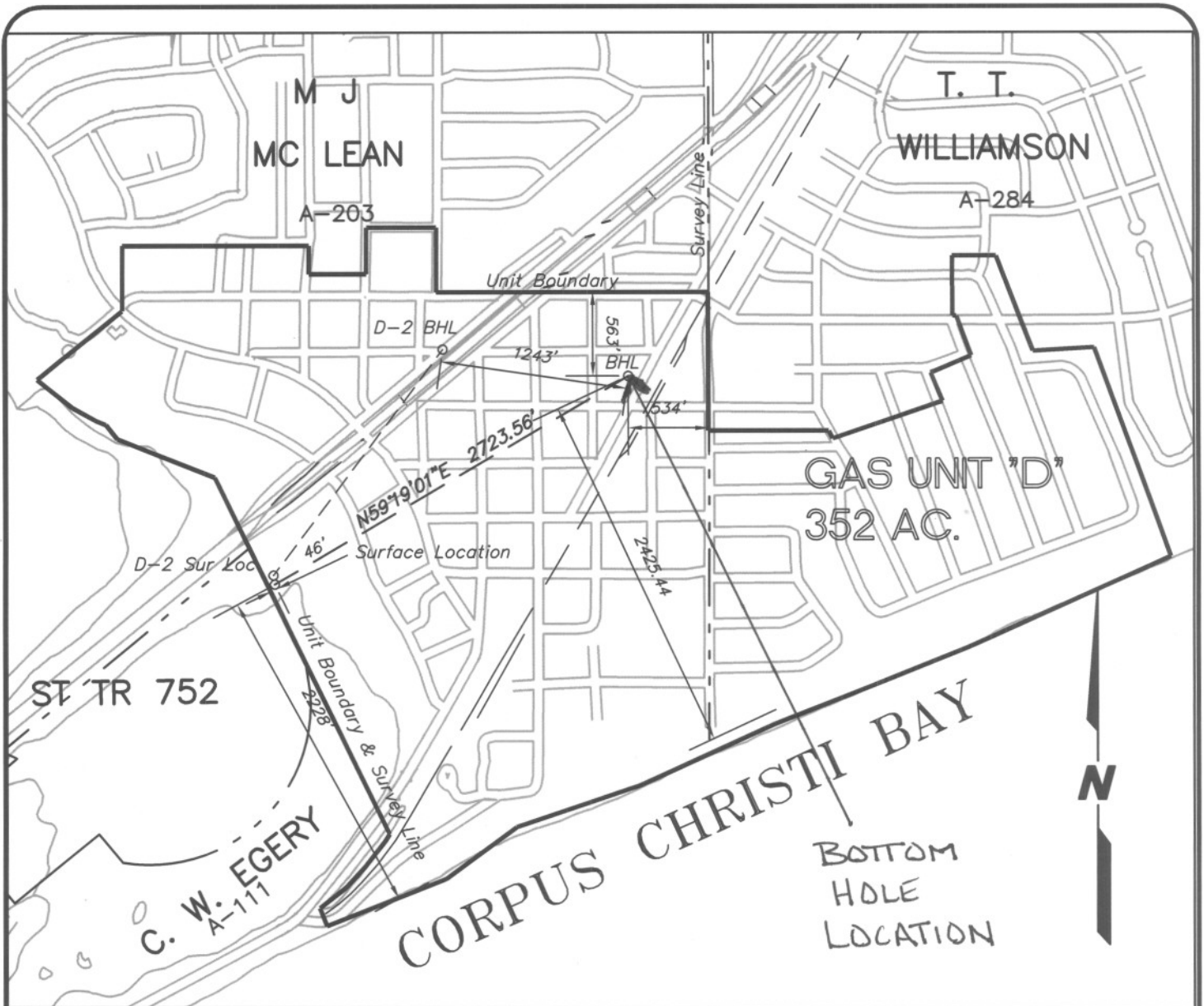
WELL SITE

BASS ENTERPRISES PRODUCTION COMPANY
PORTLAND, TEXAS

BASS & WELSH ENGINEERING
CONSULTING ENGINEERS AND SURVEYORS
3054 SOUTH ALAMEDA STREET 78404
P.O. BOX 6397 78466-6397
TELEPHONE: (361) 882-5521
FACSIMILE: (361) 882-1265
CORPUS CHRISTI, TEXAS



MAY 15 2007



NOTE: Bearings, Distances and Coordinates are State of Texas, Lambert Grid, South Zone, NAD 1927
(S) Denotes a scaled distance.

PLAT SHOWING LOCATION OF
BASS ENTERPRISES PRODUCTION CO.-GAS UNIT "D", WELL NO. 4
M.J. McLEAN SURVEY, A-203
CITY OF PORTLAND, SAN PATRICIO COUNTY, TEXAS
RAILROAD COMMISSION DISTRICT NO. 4

Surface Location:
X=2,378,693.73
Y= 803,648.20
Elev. 6.3'

Bottomhole Location
X=2,381,036
Y= 805,038



Murray Bass, Jr., R.P.L.S.

Prepared by:
Bass & Welsh Engineering
3054 So. Alameda St.
Corpus Christi, Tx. 78404
(361) 882-5521 (phone)
(361) 882-1265 (fax)

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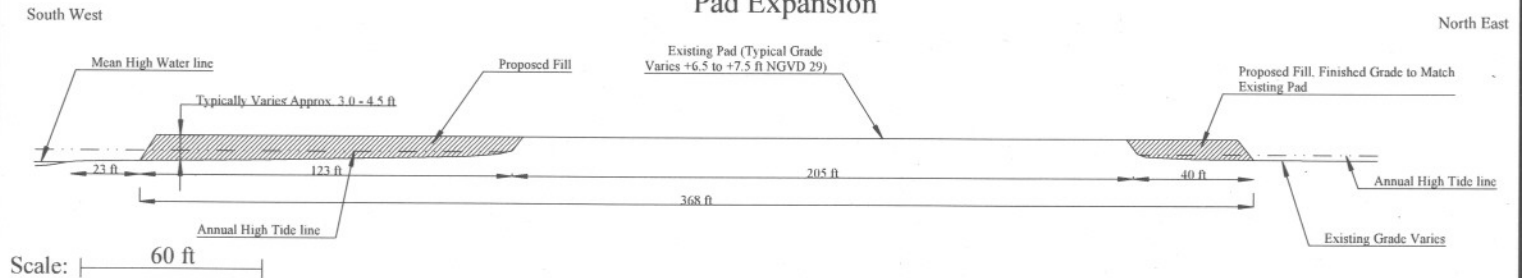
Page 6 of 11

Job No: 92042
Scale: 1"=1000'
Date: 9-21-06
Drawing No: LOCPLATBAS
Plotscale: 1=1
Sheet 1 of 1

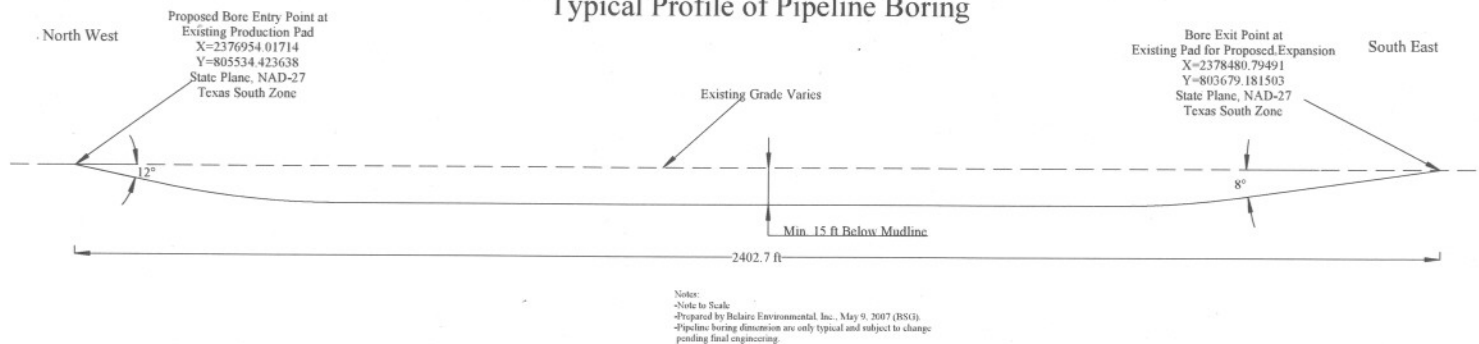
PROPOSED DRILLING PAD EXPANSION
& PIPELINE, SAN PATRICIO COUNTY,
TEXAS

BEPCO, L.P.
117 Tura
El Campo, Texas 77437

Typical Section of Proposed Drilling Pad Expansion



Typical Profile of Pipeline Boring



Notes:
-Prepared by: Belaire Environmental, Inc., May 9, 2007 (BSG).
-For permitting only, not for construction.

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Rockport, TX 78382

May 9, 2007

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PROPOSED MITIGATION FOR
DRILLING PAD EXPANSION IMPACTS,
SAN PATRICIO COUNTY, TEXAS

BEPCO, L.P.
117 Tura
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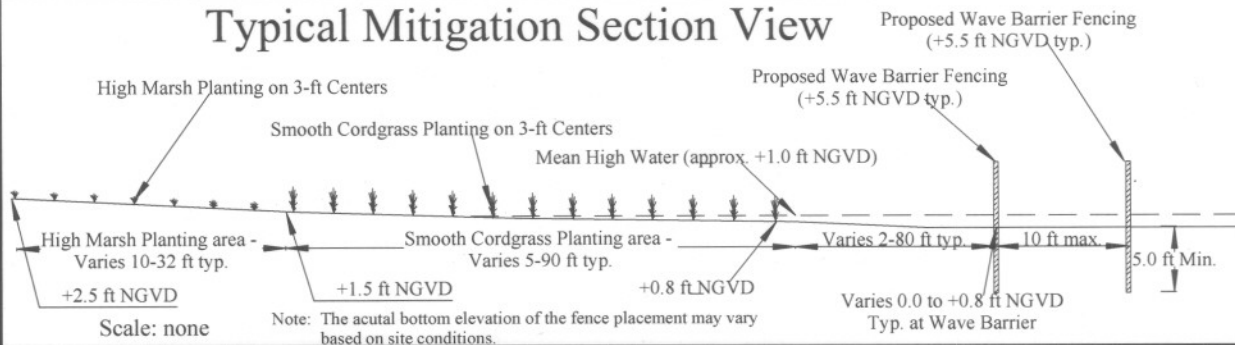


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Rockport, TX 78382

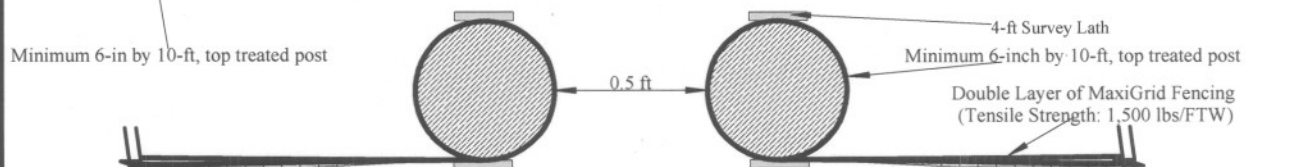
May 9, 2007

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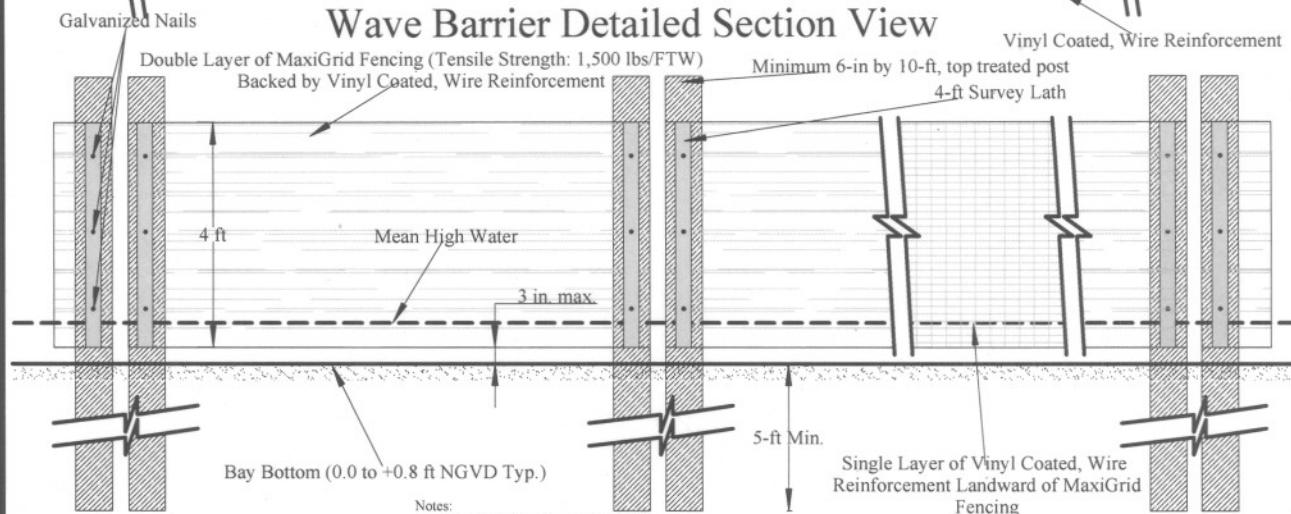
Typical Mitigation Section View



Wave Barrier Plan View



Wave Barrier Detailed Section View



Notes:

- For permitting only, not for construction.
- Each 15-ft section of wave barrier will consist of 2 layers of MaxiGrid fencing with a 6-inch by 10-ft minimum top treated post on each end. The ends of the MaxiGrid fencing will be wrapped entirely around the treated posts and secured either side with a 4-ft survey lath nailed on either side of the post. Three holes will be pre-drilled in each lath to facilitate nailing the laths to the posts using galvanized nails. One layer of vinyl coated, wire fencing will be placed landward (behind) the MaxiGrid fencing for added strength.
- Three plastic cable ties will also be used to further secure the Tensor fencing to each post.
- Posts will be jetted or driven into place.
- Prepared by Belaire Environmental, Inc., May 9, 2007 (BSG).

Scale: none

PROPOSED MITIGATION FOR
DRILLING PAD EXPANSION IMPACTS,
SAN PATRICIO COUNTY, TEXAS

BEPCO, L.P.
117 Tura
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NOTES & MITIGATION

1. Approximately 1.37 Acres of jurisdictional area (0.925 Ac of sand flat and 0.445 Ac of vegetated jurisdictional areas dominated by sea ox-eye daisy (*Borrchia frutescens*), glasswort (*Salicornia virginica*), dwarf glasswort (*Salicornia bigelovii*) and shoregrass (*Monanthochloe litoralis*)) will be impacted by the proposed pad expansion. The applicant has avoided 0.31 Ac of impacts to jurisdictional areas by agreeing to bore the entire 2,402.7 ft long pipeline.
2. Compensatory mitigation at a 1:1 ratio for permanent and temporary impacts to wetlands and sand flats will be constructed as indicated in the proposed plans. Two wave barrier fences will be constructed to protect the 1.37 Ac mitigation area from wave action. The planting areas will be planted on 3-ft centers with smooth cordgrass (*Spartina alterniflora*) and high marsh species including sea ox-eye daisy, glasswort, dwarf glasswort shoregrass, marsh-hay cordgrass (*Spartina patens*) and associated species. The mitigation area will have the secondary benefit of protecting approximately 180 acres of existing estuarine wetlands from further erosion. Historical aerial photos indicate that 22.75 acres of wetlands have been lost to erosion between 1948 and 2004. See the attached mitigation plan for wave barrier fence construction details.
3. The proposed wave barrier fences will be inspected and repaired, if needed, weekly during the first six weeks post construction and twice monthly thereafter, until six months from the date of mitigation site construction and planting. The wave barriers will be removed two years after installation.
4. All mitigation construction and planting will be completed within 6-months of the date impacts to the jurisdictional area occurs.
5. Planting, replanting and monitoring will be performed as follows:
 - a. Following sediment conditioning of at least 60 days the area will be planted on 3-ft centers. A planting unit will consist of a sprig of small clump of each of the various salt marsh species. Each planting unit will be securely embedded in the planting surface.
 - b. The USACE shall be notified in writing as to date of actual transplanting activities a minimum of two weeks prior to commencement of these operations.
 - c. Plant material will be obtained from on-site or commercial sources. No more than one 6-inch plug of source material per one square yard shall be obtained from designated borrow areas. Incidental damage to borrow areas shall be strictly avoided.
 - d. Complete photographic coverage of the planting area shall be submitted immediately prior to and following transplanting activities.

PROPOSED DRILLING PAD EXPANSION
& PIPELINE, SAN PATRICIO COUNTY,
TEXAS

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- e. Agencies shall be notified in writing upon completion of the planting effort.
- f. A monitoring effort will be conducted within 60 days following the initial planting effort. If 50% survival of transplant material is not achieved, a 2nd planting effort will be made within the next 30 days or within the next seasonal high tide period (Sept 15 to Nov 15 or Mar 15 thru June 15) for estuarine and high marsh areas. A written report detailing the results of this effort shall be submitted immediately following the survey.
- g. If at least 70% coverage of vegetation indicative of wetlands (FAC or wetter) is not achieved within two years following the initial planting an additional replanting will be performed within the next 30 days or within the next seasonal high tide period (Sept 15 to Nov 15 or Mar 15 thru June 15) for estuarine marsh areas. A written report detailing the results shall be submitted to the USACE immediately following the survey.
- h. A monitoring study will be conducted following the planting. The percent coverage will be monitored within the mitigation area. The monitoring study will note any unusual sedimentation variations and will include depth of soft-sediment accumulations throughout the site. Rates of erosion and other observations will also be made. Subsequent progress reports containing the referenced information shall be submitted to the agencies at 6-months and then yearly for a period of 5 years following the initial planting. From the date vegetation coverage achieves 70%, annual monitoring and reporting will continue for three additional years. Replanting will occur annually if 70% coverage is not achieved during any of the additional monitoring efforts.
- i. Monitoring reports will list the monitoring requirements and performance standards and evaluate whether the compensatory mitigation site is successfully achieving the approved performance standards or trending toward success. Summary data will be provided to substantiate the success and/or potential challenges associated with the compensatory mitigation project. Photo documentation shall be provided to support the findings. Maps will be provided indicating the location of the compensatory mitigation site relative to other landscape features, habitat types, locations of photographic reference points, transects, sampling data points, and/or other pertinent features. A general statement will be included describing the conditions of the compensatory mitigation site. If performance standards are not being met, an explanation of the difficulties and potential remedial actions proposed by the permittee, including a timetable, will be provided.

PROPOSED DRILLING PAD EXPANSION
& PIPELINE, SAN PATRICIO COUNTY,
TEXAS

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